Angel Martinez

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EDUCATION

California State University, San Bernardino — San Bernardino, CA
Bachelor of Science in Computer Engineering, 3.45/4.0 GPA — *Aug. 2019 - May 2023*

EXPERIENCE

Software Engineer Fellow — July 2024 – Sep. 2024
Headstarter AI — *Remote*

- Developed a Pantry Tracker application using ReactJS, NextJS, and Firebase following CRUD operations
- Built a Flashcard web application utilizing Stripe API, initially hosted on AWS EC2 and later migrated to Vercel. Implemented a subscription page using Stripe API for payment processing
- Engineered the backend infrastructure for an AI complaint detection web app using Flask, SQLAlchemy, and PostgreSQL, advancing to the finalist round in a hackathon

Backend Engineer Intern — Sep. 2023 - Dec. 2023
nGap Incorporated — *Bonsall, CA*

- Prototyped and developed backend services in a microservice environment using Docker, Python, and RabbitMQ, including RESTful API endpoint creation with Flask for seamless communication
- Documented backend APIs using Swagger and facilitated integration with Swagger UI, ensuring readability and smooth developer collaboration
- Implemented an asynchronous consumer and producer with C# and RabbitMQ to process sensitive documents encoded in base64, enriching the data within the Transformation layer of ETL
- Utilized CRUD operations to develop business logic for user-generated records, using SQL and Pythons ORM SQLAlchemy

iOS Developer Intern — May 2023 - Aug. 2023
MDNR Energy Technolog LLC — *Remote*

- Developed an iOS application with SwiftUI along with the MVVM architecture, integrating real-time API updates resulting in a 25% efficiency boost in power consumption
- Implemented NSNotifications for power system tracking, resulting in a decrease of inefficiencies by 30%, cutting unnecessary costs through timely alerts for deviations
- Visualized power consumption data throughout the day by generating interactive graphs, enabling users to intuitively visualize and analyze power consumption patterns for informed decision-making to maintain efficiency in power consumption

PROJECTS

DevFolio | *Live* | *GitHub* — Sep. 2024

- Developed robust backend services using Python and SQLite, implementing user authentication and managing relational data for profile information in a developer portfolio web app
- Created and optimized multiple RESTful API endpoints using FastAPI, ensuring efficient handling of CRUD operations and smooth user interactions with data
- Integrated pdfplumber for automated text extraction from PDF files, enabling dynamic resume review and enhancing document processing capabilities
- Deployed backend services on Render, ensuring reliable and scalable access for end-users

Complaint Detection | *Live* | *GitHub* — Aug. 2024

- Built an AI complaint detection web app using Python, Flask, and Blueprint for CRUD operations
- Managed PostgreSQL database with schema migrations and entity relationships
- Ensured scalable backend to store user-submitted complaints and maintain data integrity

TECHNICAL SKILLS

Languages: Python, Swift, C#, SQL (MSSQL, Postgres, SQLite), Firebase, JavaScript, HTML/CSS
Frameworks: Flask, React, Tailwind CSS
Developer Tools: Git, Docker